

Amendments to the Specification:

Please replace the paragraph beginning at page 36, lines 5-17, with the following:

-- From Table 3, Boolean expressions can be written that form logical tests on the data to determine cluster assignment. For example, a Boolean expression testing for membership of a DNA profile in cluster 1 is "(d13s17-allele11) and not (d13s17-allele12) and not (d~~13~~16s539-allele11) and (d~~13~~16s~~17~~539-allele12)", where the terms in parentheses are logical variables that are true if the corresponding allele is present and false otherwise. A more complex example is the Boolean expression testing for membership in cluster 5: "(((d13s17-allele11) and (d13s17-allele12)) or not ((d13s17-allele11) or (d13s17-allele12))) and (((d16s539-allele11) and (d16s539-allele12)) or not ((d16s539-allele11) or (d16s539-allele12)))". This expression requires both alleles from each locus to be either present or absent in order to be true. Boolean expressions can be rewritten in various forms and simplified according to methods that are well known and practiced in the fields of Boolean algebra and logic circuit design.--